#### **EXECUTIVE SUMMARY**

# BRACand GNO, Inc. Trade Study Strategy to optimize the international trade potential of Southeast Louisiana

New Orleans, LA June 10, 2009

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- Cost model
- ▶ Trade assessment
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- ▶ Recommendations and strategies

## The study followed a three-phase approach to assess both qualitative and quantitative information to develop potential strategies for Southeast Louisiana



- Review studies
- Conduct interviews
- Collect and normalize data



- Develop transportation cost model
- Assess trade data
- Assess market factors
- Assess infrastructure factors
- Evaluate competing ports on relative position within the market

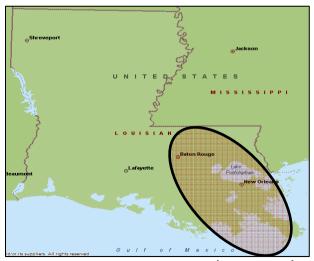


 Develop near-term, mid-term, long-term strategies for increasing economic growth considering existing regional assets

#### **Study Objectives**

- Determine the best international trade strategy for the region considering all infrastructure assets including, but not limited to: air, rail, ground transportation, ports and inland waterways
- Provide a fact based assessment and offer recommendations on near-term, mid-term, and long term strategies to improve and optimize international trade activities for the maximum economic benefit to Louisiana

### **Southeast Louisiana**



### The project team conducted over 50 interviews and gained critical insights from stakeholders and market participants...

### Individuals and Organizations Providing Input <sup>1</sup>

- George Knost, Arkel
- John Spain, BRAF
- Edwin Blair, Citrus Lands
- Elizabeth Jackson, Coastal Cargo Company
- Larry Rase, Consolidated Terminals and Logistics
- Mark West, CRC
- Bill Myers, Dow Chemical
- Arne Hook, Eden Enterprises
- Steve Blume, Exxon Mobil
- Charles Allen, Holy Cross Neighborhood
- Josh Lewis, Holy Cross Neighborhood
- Bruce Lambert, Institute for Trade and Transportation Studies
- ▶ Erik F. Johnsen, International Shipholding Inc.
- Eugene Ji, Iron Stone
- ▶ John Kallenborn, JP Morgan Chase
- David Schulingkamp, MBLX Resources, LLC
- Ned Peak, Millennium Port
- Mike Bush, Mississippi River Bank
- Jim Bridger, New Orleans Public Belt Railroad
- George Duffy, NSA Agencies, Inc.

- John Hallmark, Osprey Lines
- Joseph Accardo, Port Association of Louisiana
- Jay Hardman, Port of Greater Baton Rouge
- Gary LaGrange, Port of New Orleans
- Robert Landry, Port of New Orleans
- Joel Chaisson, Port of South Louisiana
- Pres. Bill Nungesser, Plaquemines Parish
- Karen Parsons, Regional Planning Commission
- Lynn Dupont, Regional Planning Commission
- Jonathan Red, Sea Point
- Lucien Cutrera, Shaw Group
- James Baldwin, Jr., Southern Sails of LA, LLC
- Secretary William Ankner, State of Louisiana
- Senator A.G. Crowe, State of Louisiana
- David Kearney, The Kearney Companies
- Greg Rusovich, Transoceanic Trading and Development Company
- ▶ Pam Dashiell, Tulane University
- ▶ Eugene Schreiber, World Trade Center
- Thomas Sands, MG (Ret.) USA
- W.J. Amos Sea Point

#### **Select Organizations**

- 2 Fortune 100 consumer goods companies
- International third party logistics provider
- Terminal operators LA/LB
- Maersk, Inc.
- Hapag Lloyd
- Mediterranean Shipping Company (MSC)
- Ports America
- Mobile Chamber of Commerce
- Savannah Economic Development Authority
- US Maritime Administration

...with the primary themes of cost, service, and unified governance emerging

# The key learnings from the study focus on opportunities related to governance, marketing, and infrastructure; all with the intent of driving economic growth

#### Governance

- ▶ The region lacks a unified vision on the trade and transportation industries
  - No clear view on which markets to pursue; no strategic focus
  - Too many local competing projects with no mechanism to determine what's best for the region as a whole

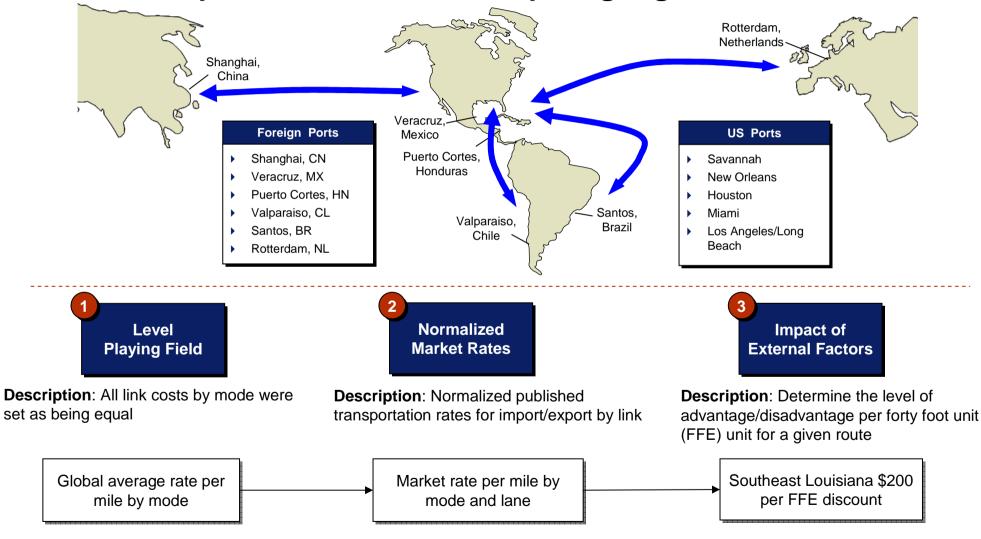
### Marketing

- ▶ The region lacks a cohesive marketing strategy focused on select commodities, countries, and industry segments that can provide growth opportunities and direct economic impact; no tactical focus
- ▶ Southeast Louisiana is cost and service competitive on North South (Latin America) trade, and therefore should be the primary focus
- ▶ East West trade can be pursued on an opportunistic basis, potentially around specific global commodities (petrochemical, agriculture products, etc.)
  - Sizeable market, but highly competitive
  - The region's cost and service is less competitive

#### Infrastructure

- ▶ The existing port infrastructure is inadequate for potential container growth
- Current warehouse space is inadequate to support industrial or trade related growth

A cost model was developed to run three scenarios to identify natural logistical advantages and better understand Southeast Louisiana's position relative to competing regions



### In a level playing field scenario, Southeast Louisiana has a cost advantage mainly in the lower Mississippi River corridor

Percent Cost Difference Between Southeast Louisiana and the Competitive Field – Scenario 1

	Puerto Cortes, Honduras	Rotterdam, Netherlands	Santos, Brazil	Shanghai, China	Valparaiso, Chile	Veracruz, Mexico
Atlanta	-21.5%	-20.4%	-31.3%	-4.7%	-11.6%	-11.1%
Birmingham	6.6%	-6.0%	-15.0%	1.5%	1.1%	14.8%
Chicago	3.1%	-5.6%	-12.8%	-14.4%	0.1%	8.8%
Cincinnati	-15.2%	-17.0%	-25.8%	-10.6%	-9.8%	-7.9%
Columbus GA	-19.8%	-19.6%	-29.8%	-4.7%	-11.3%	-10.7%
Dallas	-67.5%	-27.7%	-8.1%	-13.6%	-27.4%	-85.1%
Kansas City	-39.3%	-19.8%	-10.9%	-37.2%	-19.7%	-47.9%
Lexington	-7.1%	-11.5%	-20.3%	-2.1%	-5.6%	-0.6%
Little Rock	6.6%	4.4%	-2.1%	0.0%	4.2%	1.3%
Louisville	-9.9%	-13.8%	-22.0%	-13.0%	-7.1%	-3.2%
Memphis	15.7%	2.2%	-5.5%	-1.5%	8.0%	11.6%
Nashville	0.8%	-7.3%	-16.5%	-1.8%	-1.4%	7.9%
Peoria	10.7%	1.8%	-4.5%	-13.2%	6.7%	7.5%
Shreveport	-48.9%	-18.2%	-5.0%	-8.7%	-18.1%	-66.0%
St. Louis	12.4%	2.0%	-4.9%	-13.9%	7.3%	8.8%

Note: Competitive field is defined as the ports of LA/LB, Savannah, Miami, and Houston

Positive numbers indicate a Southeast Louisiana advantage

### With normalized market rates, Southeast Louisiana is disadvantaged with respect to East - West trade

Percent Cost Difference Between Southeast Louisiana and the Competitive Field – Scenario 2

	Puerto Cortes, Honduras	Rotterdam, Netherlands	Santos, Brazil	Shanghai, China	Valparaiso, Chile	Veracruz, Mexico
Atlanta	5.4%	-33.5%	-7.6%	-34.9%	-13.5%	14.9%
Birmingham	19.5%	-15.8%	4.9%	-25.9%	0.6%	27.9%
Chicago	3.1%	-17.8%	-0.1%	-70.0%	-4.0%	-3.6%
Cincinnati	4.4%	-27.2%	-6.4%	-63.4%	-11.2%	-1.9%
Columbus GA	8.8%	-23.9%	-2.2%	-43.3%	-7.0%	2.1%
Dallas	-76.8%	-30.8%	-11.8%	-79.7%	-57.0%	-104.1%
Kansas City	-29.0%	-15.7%	-0.1%	-100.6%	-23.2%	-41.9%
Lexington	3.9%	-19.6%	-4.8%	-40.7%	-9.0%	-2.1%
Little Rock	9.8%	-12.2%	5.3%	-49.2%	1.6%	3.5%
Louisville	3.8%	-23.6%	-4.3%	-63.3%	-8.7%	-2.7%
Memphis	9.9%	-5.5%	11.5%	-46.2%	6.9%	2.4%
Nashville	4.7%	-5.5%	7.3%	-45.6%	3.1%	-2.6%
Peoria	3.7%	-4.2%	9.3%	-62.0%	2.5%	-2.6%
Shreveport	-31.0%	-5.1%	10.9%	-44.2%	-22.8%	-51.1%
St. Louis	4.3%	-4.9%	10.4%	-69.4%	2.8%	-3.1%

Note: Competitive field is defined as the ports of LA/LB, Savannah, Miami, and Houston

Positive numbers indicate a Southeast Louisiana advantage

## A per FFE advantage of \$200 would increase Southeast Louisiana's competitiveness in Latin America and with the Rotterdam trade

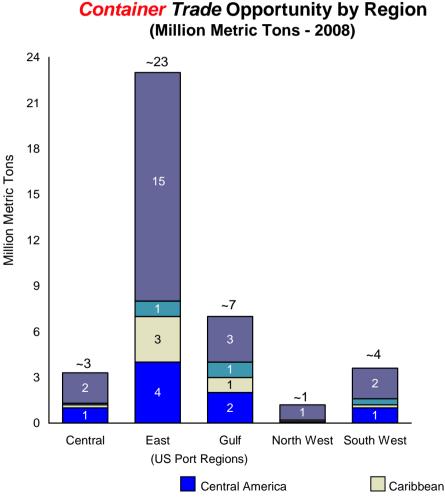
Percent Advantage/Disadvantage per FFE for Southeast Louisiana – Scenario 3

	Puerto Cortes, Honduras	Rotterdam, Netherlands	Santos, Brazil	Shanghai, China	Valparaiso, Chile	Veracruz, Mexico
Atlanta	11.8%	-26.7%	-2.3%	-31.6%	-7.6%	21.1%
Birmingham	25.5%	-9.5%	9.9%	-22.8%	6.1%	33.7%
Chicago	8.4%	-12.7%	4.1%	-66.3%	0.5%	2.4%
Cincinnati	9.7%	-21.7%	-2.0%	-59.8%	-6.4%	4.1%
Columbus GA	14.7%	-17.9%	2.6%	-39.9%	-1.8%	8.9%
Dallas	-69.0%	-26.1%	-7.9%	-76.1%	-51.2%	-94.6%
Kansas City	-22.9%	-11.2%	3.7%	-96.4%	-18.4%	-34.9%
Lexington	8.7%	-14.7%	-0.7%	-37.7%	-4.6%	3.3%
Little Rock	15.4%	-6.9%	9.7%	-45.7%	6.3%	10.0%
Louisville	9.0%	-18.3%	0.0%	-59.7%	-4.0%	3.2%
Memphis	16.4%	0.1%	16.1%	-42.6%	12.0%	10.1%
Nashville	10.5%	-0.4%	11.5%	-42.2%	7.7%	4.1%
Peoria	8.7%	0.1%	12.9%	-58.5%	6.6%	3.1%
Shreveport	-22.2%	0.1%	15.2%	-40.7%	-16.6%	-40.3%
St. Louis	10.3%	0.1%	14.5%	-65.4%	7.5%	3.7%

Note: Competitive field is defined as the ports of LA/LB, Savannah, Miami, and Houston FFE – Forty foot equivalent

Positive numbers indicate a Southeast Louisiana advantage

## Trade with Latin America and Mexico presents a sizeable opportunity with ~141 million metric tons of containerized and non-containerized freight coming through competing gulf ports



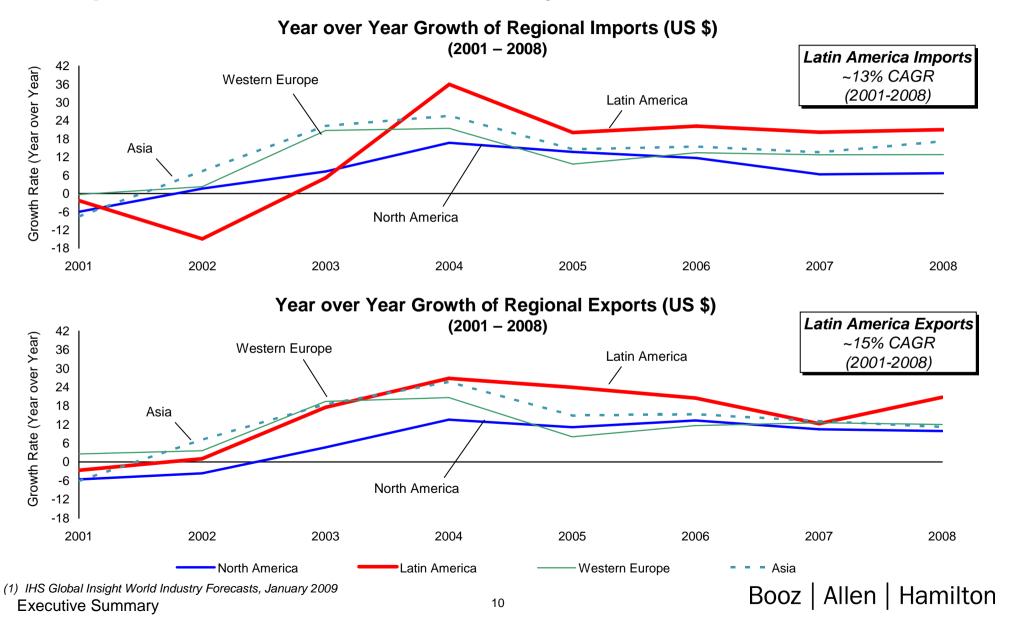
**Latin America and Mexico** 

**Latin America and Mexico Non-Container Trade Opportunity by Region** (Million Metric Tons - 2008) 140 ~134 ~123 120 100 Million Metric Tons 85 80 60 40 ~28 20 25 ~13 6 Central North West South West East Gulf (US Port Regions) South America Mexico

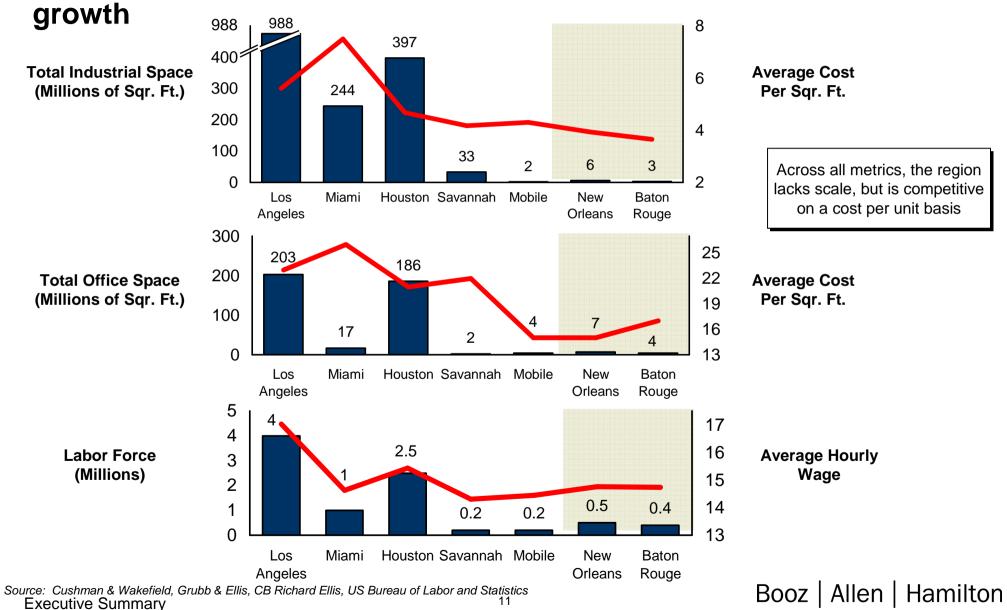
<sup>(1)</sup> US Census Foreign Trade Statistics, 2008

<sup>(2)</sup> Southeast Louisiana volumes excluded from graphs Executive Summary

### Latin America's growth in trade has exceeded that of Asia, Western Europe, and North America in recent years



Southeast Louisiana is well positioned in the average hourly wage category, but is lacking in industrial space to support near-term



# When compared to its peers, Southeast Louisiana's assets are adequate: exports are a strength, while the river is both a strength and a limiting factor Comparative Assessment of Regional Infrastructure

Category	SE Louisiana	LA/LB	Houston	Mobile	Miami	Savannah
Container traffic scale (millions)	• 0.3	• 14	• 1.4	• 0.1	• 0.7	• 3
Container traffic balance	65% exports	68% import	• 58% export	• 74% import	• 53% import	• 53% export
Non-container scale	• ~90 MMT	• ~90.3 MMT	• ~77.9 MMT	• ~32 MMT	• ~1.4 MMT	• ~14 MMT
Non-container balance	56% exports	72% import	65% import	61% import	• 66% export	• 70% import
Management	Local, landlord	Local, landlord	Local, operator	State-owned, landlord	Local landlord	State-owned, operator
Primary markets	Latin America	Asia	Latin America, Europe	Latin America, Asia	Latin America, Asia	Asia, Europe
Key commodities	Petroleum     Chemical     Agriculture	<ul><li>Finished goods</li><li>Petroleum</li><li>Vehicles</li></ul>	Petroleum     Plastics     Chemical	Petroleum     Forest products     Auto	Vehicles Machinery Finished goods	Finished goods     Forest products     Salt
Inland Markets	Baton Rouge	Southwest     Chicago	Texas, OK	Alabama     Nashville	Florida	Atlanta
Highway connections	Minor bottlenecks	Major bottlenecks	Bottlenecks	No bottlenecks	Bottlenecks	No bottlenecks
Railroads served	• 6	• 2	• 2	• 5	• 1	• 2
Rail connectivity to hinterlands	Limited bottlenecks	Major bottlenecks	Minor bottlenecks (to/from Mexico)	No bottlenecks	Limited bottlenecks	Limited bottlenecks
Local markets	Small	Mega	• Large	Small	• Large	Large (Atlanta)
Advantages	River for bulks     Local petro industry     Strong exports	Mega local market     Rail connectivity     Imbalance toward imports	Local market     Petro business     Exports	Growing industry     Expansion	Local market     Established LATAM trade network	Integrated marketing     Nearby distribution centers
Disadvantages	River transit     Limited local demand	Congestion	Ship channel	Small local markets	Cruise congestion	Limited local demand
Foreign Sales/Reps	• 2 PNO	• 9 (LB), 8 (LA)	• 2	None	None	• 16
Airport	MSY (Small)	LAX (Major Hub)	IAH (Major Hub)	MOB (Small)	MIA (Hub)	ATL (Hub) + SAV

Weaknesses

# Southeast Louisiana's key strength rests with non-containerized trade, while a lack of industrial and consumer demand is the leading weakness

Southeast Louisiana Strengths, Weaknesses, Opportunities, and Threats

**Strengths** 

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<ul> <li>Bulk and break bulk freight markets – agriculture, coal, petroleum, chemicals – good base of export tonnage</li> <li>Mississippi River connectivity to inland US and international locations – bulk goods movement</li> <li>PNO Napoleon Avenue Terminal receives 10 container calls per week – primarily from Latin America</li> <li>Inland transportation infrastructure - Six Class I railroads interstate highway connectivity</li> <li>Historical trade ties with Latin America</li> <li>SE Louisiana is closer than Houston when coming into the Gulf</li> </ul>	<ul> <li>Lack of regional demand – consumer and industrial</li> <li>Limited near term container capacity</li> <li>Lack of inland infrastructure found in competing regions – i.e., centralized intermodal transfer facilities and warehousing</li> <li>Negative perceptions by the market</li> <li>Lack of a unified goods movement strategy focused on driving economic growth based upon the interconnectivity of regional assets</li> <li>Lack of a unified regional marketing strategy</li> <li>Lack of unified port governance from Baton Rouge through to Gulf of Mexico</li> </ul>
Opportunities	Threats
<ul> <li>Near-term and long-term diversion opportunities oriented toward Latin America and Mexico with containerized cargo</li> <li>Well positioned to focus on select industries/commodities with a niche differentiation strategy rather than focusing on a broad market scope strategy</li> </ul>	<ul> <li>Continued expansion of Gulf coast ports</li> <li>Loss of existing trade related business to rising regional competitors</li> <li>West Coast ports such as Prince Rupert, Seattle/Tacoma, Oakland, and Mexican ports such as Lazaro Cardenas could continue to capture East-West traffic from Asia to Central US</li> <li>East Coast ports such as NY/NJ, Norfolk, and Savannah continue to capture East-West traffic from Europe to Central US</li> </ul>

### Based on our analysis, we believe Southeast Louisiana needs to adopt a clear strategy for marketing, physical infrastructure, and regional coordination

#### Recommendations

- ▶ Marketing efforts should focus on North-South trades it is your strength, it minimizes investment risks, it is a more balanced trade
  - Strategy should focus on regional shippers with Latin America and Mexico trade
  - East-West can follow, but should be pursued opportunistically
- Region needs a unified "go-to-market" strategy for coordinated infrastructure investment and unified marketing
  - Clear trade vision and mission for Southeast Louisiana
  - Region should work with the State to build overseas trade presence
- Near term infrastructure decisions should enable tactical efficiency and be built to scale for anticipated growth
- Region should evaluate new projects on:
  - Their ability to reduce cost and improve service within and through the region
  - Their ability to provide significant economic benefit for the region
- Region needs coordinated governance around an infrastructure strategy trade and non-trade infrastructure
- Create global commodity groups to ensure alignment of trade and non-trade infrastructure to specific market opportunities

## We believe these three strategies will enable Southeast Louisiana to best leverage its assets to increase international trade

Strategy	Near-Term	Medium-Term	Long-Term
<ul> <li>Go-to-Market         Strategy         <ul> <li>Focus on cargo that is aligned with regional strengths and which produces significant economic benefit to the region</li> <li>Target Latin America and Mexico traffic at the onset</li> <li>Develop and execute a go-to-market strategy based upon select commodities/industries identified</li> <li>Define Key Performance Indicators to measure strategy effectiveness</li> <li>Create global commodity focus groups around key global exports / imports</li></ul></li></ul>		<ul> <li>Build overseas marketing presence in priority target markets (Latin America and Mexico)</li> <li>Develop and execute against marketing plans for selected target markets</li> <li>Conduct periodic reviews of functional strategies to ensure competitive positioning is maintained – refine where necessary</li> </ul>	<ul> <li>Continue to expand and refine regional/commodity focus</li> <li>Opportunistically pursue other trades (e.g. Europe, Asia)</li> </ul>
Physical Infrastructure Strategy Provide modern, efficient trade, and trade support infrastructure, suited to the region's key trading markets	<ul> <li>Evaluate near term infrastructure improvements against mid-term infrastructure needs</li> <li>Ensure near-term investments are aligned with regional strategies - go-to-market and goods movement</li> <li>Develop infrastructure strategy for non-transportation infrastructure (office, warehousing, and Free Trade Zones)</li> </ul>	<ul> <li>Identify long-term container handling capacity based on vision for the region         <ul> <li>PNO</li> <li>Alternative sites</li> </ul> </li> <li>Ensure adequate transportation infrastructure for key global commodities</li> <li>Execute non-transportation infrastructure strategy</li> </ul>	<ul> <li>Build/expand incremental container capacity</li> </ul>
Regional Coordination Strategy Ensure all stakeholders are aligned to execute the marketing and infrastructure objectives of the SE Louisiana	<ul> <li>Identify and assess institutional structures for coordinated governance</li> <li>Identify, or create, institution to oversee regional coordination</li> <li>Develop a goods movement strategy among the various stakeholders with specific mission, vision, and goals</li> </ul>	<ul> <li>Implement changes in governance</li> <li>Perform independent evaluation of regional coordination effort         <ul> <li>Goods movement strategy</li> </ul> </li> <li>Make necessary refinements to strategy</li> </ul>	<ul> <li>Monitor and measure effectiveness of goods movement strategy</li> </ul>

## A detailed Go-to-Market strategy focused on Latin America and Mexico will identify opportunities for increased freight volumes

### Key Near-Term Steps in Developing a Go-to-Market Strategy

Step 1
Focus

- ▶ Develop regional trade vision statement
- Develop regional trade mission statement

Step 2 Find

- Identify country and commodity opportunities
- Perform market scan of domestic companies
- Segment addressable market
- Identify trade policies FTZ, subsidies, incentives
- Identify and evaluate value added activities

Step 3

Plan

- Develop implementation plan
- Assess capabilities required to implement the plan
- Develop domestic strategic communications plan

Step 4
Execute

- Establish overseas presence serving prioritized trade lanes
- Segment select overseas markets
- ▶ Develop overseas strategic communications plan
- (1) US Census Foreign Trade Statistics, 2008
- (2) Assumes 7 short tons per TEU, annualized number of TEUs

Note: Detailed breakout of Gulf coast, commodity, and country trade data is contained in the supplemental data workbook

### Potential Import/Export Diversion Opportunities between Brazil and Mobile/Houston





### We believe these are the ideal infrastructure attributes that should be in place for future port projects

### **Ideal Infrastructure Attributes for Consideration**

- ▶ River transit <4 hours</p>
- Ample space to support long term terminal expansion goals
- ▶ Ample space to support inland infrastructure expansion goals industrial/warehousing space, transload capability, rail yards, roads, and trucking terminals
- ▶ On dock rail or barge connectivity i.e., Intermodal Container Transfer Facility
- Support modern terminal efficiency standards
- Terminals to accommodate post-panamax vessels
- ▶ Enable green port operations e.g., cold ironing of vessels
- Synergies with bulk and break-bulk
- Inter-terminal competition
- Rail competition



The decision to expand PNO or build a new port comes down to timing, cost, and the ability of one project to satisfy the key attributes

#### Qualitative Assessment of Build versus Expand

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Attribute	Expand Existing Port	Build New Port	Comment
Reduced river transit	No opportunity	<ul> <li>Only if build downriver from PNO</li> </ul>	<ul> <li>New project must improve</li> <li>Must balance added inland cost</li> </ul>
Space for terminal expansion	Limited, only up to 1.36 M TEUs (Napoleon Ave Phase 3)	<ul> <li>Timing is critical</li> <li>Must be more efficient than Phase 3 project</li> </ul>	<ul> <li>Need available capacity to go after markets in all stages – currently not enough available</li> </ul>
Inland infrastructure availability	<ul><li>Some warehousing at Napoleon Ave</li><li>Region needs more</li></ul>	▶ Region needs more	<ul> <li>Regional problem, not a port problem with regards to availability</li> </ul>
Inland infrastructure proximity	<ul> <li>No opportunity to locate near port</li> </ul>	Opportunity to locate adjacent to port	<ul> <li>Some advantages with being adjacent to port, but not essential</li> </ul>
Inland connectivity	<ul> <li>Rail, barge, and road in place, but need upgrading</li> </ul>	None in place, will be costly	<ul> <li>Barge competitiveness with rail is unproven, but has potential</li> </ul>
Modern, efficient terminal	<ul> <li>Needs modernization, more difficult to retrofit</li> </ul>	Build from scratch is easier to better design for efficiency	<ul> <li>Environmental considerations also growing in importance (e.g. vessels idle at berth)</li> </ul>
Vessel size	▶ Limited	<ul> <li>Can build for larger vessels</li> </ul>	<ul> <li>Depends on trade routes pursued</li> </ul>
Synergies with other port traffic (bulk, break-bulk)	<ul> <li>All within a relative close proximity, but separate terminals</li> </ul>	<ul> <li>Container traffic will be isolated from non- container</li> </ul>	<ul> <li>Uncertain whether gulf services will be on larger vessels</li> </ul>
Competition	<ul> <li>Competing terminal operators</li> <li>Multiple railroads through belt, CN currently favored</li> </ul>	<ul> <li>Can plan competition in new terminal</li> <li>Multiple railroads through belt</li> </ul>	40

### **Strategy Implications**

Pursue Napoleon Avenue Phase 2 to ensure near-term capacity in order to go after new markets (lock-in traffic before Gulfport builds. Mobile expands)

Using attribute list (previous slide), determine best alternative location (focus on one project)

- Downriver from PNO
- Efficient \$/acre incremental capacity (includes inland costs)
- Area for adjacent logistics activities
- Effective connectivity (barge, rail, road)

Focus on economic benefit, not just efficiency

Determine whether new port or Napoleon Avenue Phase 3 for mid to long term, and consider timing

- Most efficient project for incremental capacity
- Same or better service
- Ability to handle larger vessels

Consider alternative strategies for Napoleon Avenue if new port is built (examples)

- Niche container (e.g. rubber, petrochemical)
- Revert to bulk, break-bulk with added warehousing (on-site value add)

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## Regional coordination has to be in place to evaluate infrastructure trade-offs and to focus on market opportunities

- ▶ Poor regional coordination leads to an "unhealthy" alignment among stakeholders
  - Lack of accountability
  - Lack of action
  - Redundancy of institutional structures and plans
- Stronger regional coordination leads to a "healthy" alignment among stakeholders
  - Decision rights: clear decision rights and accountability related to trade and transportation strategies
  - Information: Efficient information flows promote effective decision-making
  - Structure: Lean institutional structures enable the efficient implementation of plans
  - Motivators: Aligned motivators encourage stakeholder to pursue the right goals
- ▶ The focus region must be unified behind its core strategies to see the maximum economic benefit associated with trade and transportation